AND5414-7US.ST25.txt SEQUENCE LISTING

<110> Xu, Hong-Ji Hu, Shi-Xue Mills, Gordon B.	
<120> ENDOGENOUS GRANZYME B IN NON-IMMUNE CELLS	
<130> AND541/4-007US/58011	
<140> Unknown <141> 2003-09-24	
<150> 60/413,591 <151> 2002-09-25	
<160> 6	
<170> PatentIn version 3.1	
<210> 1 <211> 1977 <212> DNA <213> Homo sapiens	
<400> 1 tcacaagaat cgaaccatgt agagagactt agttgtcttt taacagaatt gggcacgggc	60
tgttcagaaa caacaatctt tcacatccat tataatgata gcattagtgt agtttgttta	120
gcaaatgttt actgtgagcc tgttatgtgc tgagcctgct atgtaagaag tgtggctctc	180
tggacaggag acagaatact aaacaacaca actactgatc tttggctgcc tggcatgctt	240
cctcacttca tatggtatca gcaatttagc accacaaacg tcctttagag aaccagccct	300
ttctcattct tggttctagt ggcttgagta gactgacccc agcctaccca aagtggattt	360
gactcctagc aattcattaa tctagcccaa tccaataaaa tgtcaagtac aggactttta	420
ttgaaagcat tcagaaaaga ggtggactct cacactaaac atttgtaact aaataaggga	480
tgttagaaat tctctagaaa ggaagctatg ataataaatg ggttgctaga tgggtctagt	540
agatggtggc cgtgctttgt tactgccttg tgtattgtgc taccatagcc ctccccaaac	600
tgtactctgg ctcctggcat ttccgtctct tcaaccagat ggtcagctct ctaagtgaag	660
gagacacatc tccaacatgc ttggttctag cacaacagaa gggctcaaac acatacctgc	720
taaagaaact atcctgatgg atttagcagc atggccatga ggcattggcg gttctatcac	780
tgggaactca ggtttctggt gctccagtac ctctactggc tgataccaca tcctacaatt	840
cacttcatag gcttgggttc ctgctctggg ctgaataggt ggtccactct gagtcatcag	900
ctgtgggtga tgatgtggtc actgcatgat tctcacacaa gcacccagag gacgtcatca	960
ggcagaggca gtgggggtgg gcagcattta cagaaaatct gtgatgagac accacaaaac	1020
cagaggggaa catgaagtca ctgagcctgc tccacctctt tcctctccca agagctaaaa	1080
gagagcaagg aggaaacaac agcagctcca accagggcag ccttcctgag aagatgcaac Page 1	1140

AND5414-7US.ST25.txt

	1200
caatcctgct tctgctggcc ttcctcctgc tgcccagggc agatgcaggg gagatcatcg	1200
ggggacatga ggccaagccc cactcccgcc cctacatggc ttatcttatg atctgggatc	1260
agaagtctct gaagaggtgc ggtggcttcc tgatacaaga cgacttcgtg ctgacagctg	1320
ctcactgttg gggaagctcc ataaatgtca ccttgggggc ccacaatatc aaagaacagg	1380
agccgaccca gcagtttatc cctgtgaaaa gacccatccc ccatccagcc tataatccta	1440
agaacttctc caacgacatc atgctactgc agctggagag aaaggccaag cggaccagag	1500
ctgtgcagcc cctcaggcta cctagcaaca aggcccaggt gaagccaggg cagacatgca	1560
gtgtggccgg ctgggggcag acggcccccc tgggaaaaca ctcacacaca ctacaagagg	1620
tgaagatgac agtgcaggaa gatcgaaagt gcgaatctga cttacgccat tattacgaca	1680
gtaccattga gttgtgcgtg ggggacccag agattaaaaa gacttccttt aagggggact	1740
ctggaggccc tcttgtgtgt aacaaggtgg cccagggcat tgtctcctat ggacgaaaca	1800
atggcatgcc tccacgagcc tgcaccaaag tctcaagctt tgtacactgg ataaagaaaa	1860
ccatgaaacg ctactaacta caggaagcaa actaagcccc cgctgtaatg aaacaccttc	1920
tctggagcca agtccagatt tacactggga gaggtgccag caactgaata aatacct	1977
<pre><210> 2 <211> 946 <212> DNA <213> Homo sapiens </pre> <pre><220> <221> CDS <222> (1)(843) <223></pre>	
<pre><400> 2 atg aag tca ctg agc ctg ctc cac ctc ttt cct ctc cca aga gct aaa Met Lys Ser Leu Ser Leu Leu His Leu Phe Pro Leu Pro Arg Ala Lys 1</pre>	48
aga gag caa gga gga aac aac agc agc tcc aac cag ggc agc ctt cct Arg Glu Gln Gly Gly Asn Asn Ser Ser Ser Asn Gln Gly Ser Leu Pro 20 25 30	96
gag aag atg caa cca atc ctg ctt ctg ctg gcc ttc ctc ctg ctg c	144
agg gca gat gca ggg gag atc atc ggg gga cat gag gcc aag ccc cac Arg Ala Asp Ala Gly Glu Ile Ile Gly Gly His Glu Ala Lys Pro His 50 55 60	192
tcc cgc ccc tac atg gct tat ctt atg atc tgg gat cag aag tct ctg Ser Arg Pro Tyr Met Ala Tyr Leu Met Ile Trp Asp Gln Lys Ser Leu 65 70 75 80	240
aag agg tgc ggt ggc ttc ctg ata caa gac gac ttc gtg ctg aca gct Lys Arg Cys Gly Gly Phe Leu Ile Gln Asp Asp Phe Val Leu Thr Ala Page 2	288

agccccgct gtaatgaaac accttctctg gagccaagtc cagatttaca ctgggagagg 923 tgccagcaac tgaataaata cct 946

816

863

<210> 3 <211> 281 <212> PRT

<213> Homo sapiens

<400> 3

Met Lys Ser Leu Ser Leu Leu His Leu Phe Pro Leu Pro Arg Ala Lys Page 3

aat ggc atg cct cca cga gcc tgc acc aaa gtc tca agc ttt gta cac Asn Gly Met Pro Pro Arg Ala Cys Thr Lys Val Ser Ser Phe Val His

tgg ata aag aaa acc atg aaa cgc tac taactacagg aagcaaacta

Trp Ile Lys Lys Thr Met Lys Arg Tyr

1 5 Arg Glu Gln Gly Gly Asn Asn Ser Ser Ser Asn Gln Gly Ser Leu Pro 20 25 30 Glu Lys Met Gln Pro Ile Leu Leu Leu Leu Ala Phe Leu Leu Leu Pro 35 40 45 Arg Ala Asp Ala Gly Glu Ile Ile Gly Gly His Glu Ala Lys Pro His 50 60 Ser Arg Pro Tyr Met Ala Tyr Leu Met Ile Trp Asp Gln Lys Ser Leu 65 . 70 75 80 Lys Arg Cys Gly Gly Phe Leu Ile Gln Asp Asp Phe Val Leu Thr Ala 85 90 95

Ala His Cys Trp Gly Ser Ser Ile Asn Val Thr Leu Gly Ala His Asn 100 105 110

Ile Lys Glu Gln Glu Pro Thr Gln Gln Phe Ile Pro Val Lys Arg Pro 115 120 125

Ile Pro His Pro Ala Tyr Asn Pro Lys Asn Phe Ser Asn Asp Ile Met 130 140

Leu Leu Gln Leu Glu Arg Lys Ala Lys Arg Thr Arg Ala Val Gln Pro 150 155 160

Leu Arg Leu Pro Ser Asn Lys Ala Gln Val Lys Pro Gly Gln Thr Cys 165 170 175

Ser Val Ala Gly Trp Gly Gln Thr Ala Pro Leu Gly Lys His Ser His 180 185 190

Thr Leu Gln Glu Val Lys Met Thr Val Gln Glu Asp Arg Lys Cys Glu 195 200 205

Ser Asp Leu Arg His Tyr Tyr Asp Ser Thr Ile Glu Leu Cys Val Gly 210 220

Asp Pro Glu Ile Lys Lys Thr Ser Phe Lys Gly Asp Ser Gly Gly Pro 225 230 235 240

Leu Val Cys Asn Lys Val Ala Gln Gly Ile Val Ser Tyr Gly Arg Asn 245 250 255

ASD 5414-7US.ST25.txt Asn Gly Met Pro Pro Arg Ala Cys Thr Lys Val Ser Ser Phe Val His 260 270

Trp Ile Lys Lys Thr Met Lys Arg Tyr 275 280

<210> 4 <211> 846 <212> DNA <213> Homo sapiens	
<400> 4 atgaagtcac tgagcctgct ccacctcttt cctctcccaa gagctaaaag agagcaagga	60
ggaaacaaca gcagctccaa ccagggcagc cttcctgaga agatgcaacc aatcctgctt	120
ctgctggcct tcctcctgct gcccagggca gatgcagggg agatcatcgg gggacatgag	180
gccaagcccc actcccgccc ctacatggct tatcttatga tctgggatca gaagtctctg	240
aagaggtgcg gtggcttcct gatacaagac gacttcgtgc tgacagctgc tcactgttgg	300
ggaagctcca taaatgtcac cttgggggcc cacaatatca aagaacagga gccgacccag	360
cagtttatcc ctgtgaaaag acccatcccc catccagcct ataatcctaa gaacttctcc	420
aacgacatca tgctactgca gctggagaga aaggccaagc ggaccagagc tgtgcagccc	480
ctcaggctac ctagcaacaa ggcccaggtg aagccagggc agacatgcag tgtggccggc	540
tgggggcaga cggccccct gggaaaacac tcacacac tacaagaggt gaagatgaca	600
gtgcaggaag atcgaaagtg cgaatctgac ttacgccatt attacgacag taccattgag	660
ttgtgcgtgg gggacccaga gattaaaaag acttccttta agggggactc tggaggccct	720
cttgtgtgta acaaggtggc ccagggcatt gtctcctatg gacgaaacaa tggcatgcct	780
ccacgagcct gcaccaaagt ctcaagcttt gtacactgga taaagaaaac catgaaacgc	840
tactaa	846
<210> 5 <211> 952 <212> DNA <213> Homo sapiens <400> 5	
gggaacatga agtcactgag cctgctccac ctctttcctc tcccaagagc taaaagagag	60
caaggaggaa acaacagcag ctccaaccag ggcagccttc ctgagaagat gcaaccaatc	120
ctgcttctgc tggccttcct cctgctgccc agggcagatg cagggggggat catcgggggga	180
catgaggcca agccccactc ccgcccctac atggcttatc ttatgatctg ggatcagaag	240
tctctgaaga ggtgcggtgg cttcctgata caagacgact tcgtgctgac agctgctcac	300
tgttggggaa gctccataaa tgtcaccttg ggggcccaca atatcaaaga acaggagccg	360

acccagcagt ttatccctgt gaaaagaccc atcccccatc cagcctataa tcctaagaac	420
ttctccaacg acatcatgct actgcagctg gagagaaagg ccaagcggac cagagctgtg	480
cagcccctca ggctacctag caacaaggcc caggtgaagc cagggcagac atgcagtgtg	540
gccggctggg ggcagacggc ccccctggga aaacactcac acacactaca agaggtgaag	600
atgacagtgc aggaagatcg aaagtgcgaa tctgacttac gccattatta cgacagtacc	660
attgagttgt gcgtggggga cccagagatt aaaaagactt cctttaaggg ggactctgga	720
ggccctcttg tgtgtaacaa ggtggcccag ggcattgtct cctatggacg aaacaatggc	780
atgcctccac gagcctgcac caaagtctca agctttgtac actggataaa gaaaaccatg	840
aaacgctact aactacagga agcaaactaa gcccccgctg taatgaaaca ccttctctgg	900
agccaagtcc agatttacac tgggagaggt gccagcaact gaataaatac ct	952
<210> 6 <211> 1091 <212> DNA <213> Homo sapiens <400> 6	
actctgagtc atcagctgtg ggtgatgatg tggtcactgc atgattctca cacaagcacc	60
cagaggacgt catcaggcag aggcagtggg ggtgggcagc atttacagaa aatctgtgat	120
gagacaccac aaaaccagag gggaacatga agtcactgag cctgctccac ctctttcctc	180
tcccaagagc taaaagagag caaggaggaa acaacagcag ctccaaccag ggcagccttc	240
ctgagaagat gcaaccaatc ctgcttctgc tggccttcct cctgctgccc agggcagatg	300
caggggagat catcggggga catgaggcca agccccactc ccgcccctac atggcttatc	360
ttatgatctg ggatcagaag tctctgaaga ggtgcggtgg cttcctgata caagacgact	420
tcgtgctgac agctgctcac tgttggggaa gctccataaa tgtcaccttg ggggcccaca	480
atatcaaaga acaggagccg acccagcagt ttatccctgt gaaaaaccca tcccccatcc	540
agcctataat cctaagaact tctccaacga catcatgcta ctgcagctgg agagaaaggc	600
caagcggacc agagctgtgc agcccctcag gctacctagc aacaaggccc aggtgaagcc	660
agggcagaca tgcagtgtgg ccggctgggg gcagacggcc cccctgggaa aacactcaca	720
cacactacaa gaggtgaaga tgacagtgca ggaagatcga aagtgcgaat ctgacttacg	780
ccattattac gacagtacca ttgagttgtg cgtgggggac ccagagatta aaaagacttc	840
ctttaagggg gactctggag gccctcttgt gtgtaacaag gtggcccagg gcattgtctc	900
ctatggacga aacaatggca tgcctccacg agcctgcacc aaagtctcaa gctttgtaca	960
ctggataaag aaaaccatga aacgctacta actacaggaa gcaaactaag cccccgctgt	1020
aatgaaacac cttctctgga gccaagtcca gatttacact gggagaggtg ccagcaactg	1080

AND5414-7US.ST25.txt

aataaatacc t

1091